

Antenna specification for approval

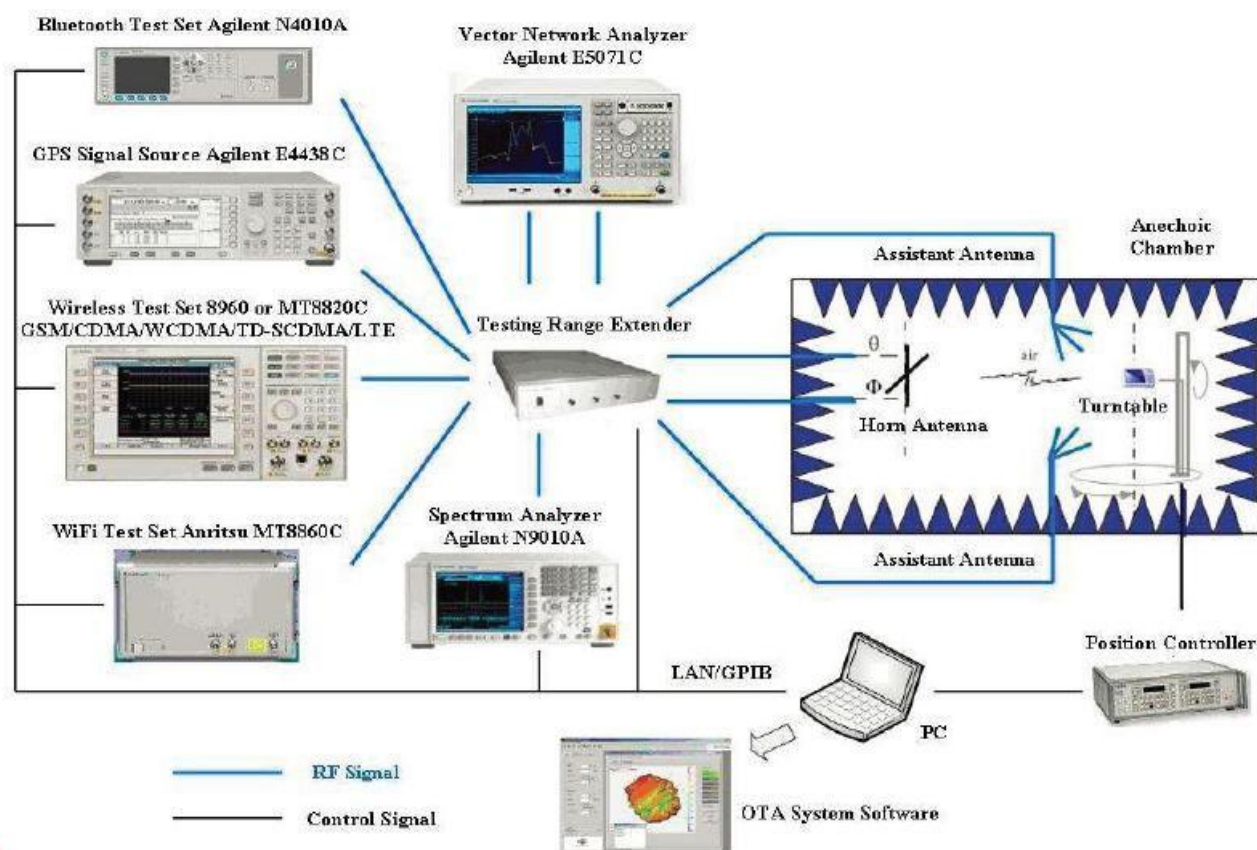
Customer name	Tianlai		
Model	D92-565M		
Antenna frequency	500-650MHz		
Antenna function	UHF Antenna		
Antenna material	FPC	FPC color	BLACK
model	SF2607B-1B2-A		
Material number	SF2607B-1L24B-070-A		
Customer Part Number			
Ward accepted the signature		Client acknowledges signature	
structure		Purchase	
Document control		structure	
radio frequency		engineering	
To examine		QC	
Responsible		To examine	
date 2025. 09. 04	Seal area	date 2025. 09. 04	Seal area

NO.	Certification number	Material type	Date of issue	Note
1	SHAEC24025471005	Tinned copper wire	2024-11-25	One year
2	SHAEC24027284565	Halogen	2024-12-06	One year
3	SHAEC24027480902	Backing adhesive	2024-12-06	One year
4	SHAEC24029171725	FEP jacket	2024-12-26	One year
5	SHAEC24027284563	FEP insulation	2024-12-05	One year
6	SZXEC25002243404	Tin wire	2025-06-30	One year
7	SZXEC25002243408	Tin strip	2025-06-30	One year
8	ETR25501383	Printing ink	2025-05-20	One year
9	A2250132593101001E	Substrate	2025-03-10	One year
10	CANEC24028865417	EVA foam	2025-01-03	One year
11	A2240439752101001	Conductive fabric	2024-07-29	One year
12	SZXEC24002471802	Gold plating	2024-08-08	One year

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1: Device support & testable antenna types



2:Overview

(1)Antenna performance

1. This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of UHF antenna.
2. Antenna shape size: Meet the requirement of MID
3. Antenna band: 500-650MHz
4. Antenna material: Antenna material meet the requirement of MID
5. Adhesive performance: Adhesive performance meet the requirement of MID
6. Antenna performance meet the spec below:

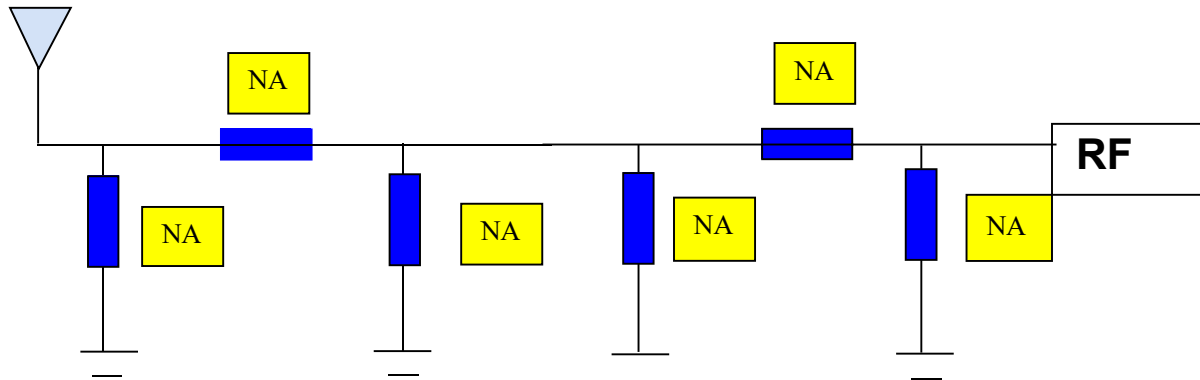
Description	500-650MHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -3.83	dBi
Peak Antenna Gain	-2.36	dBi
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

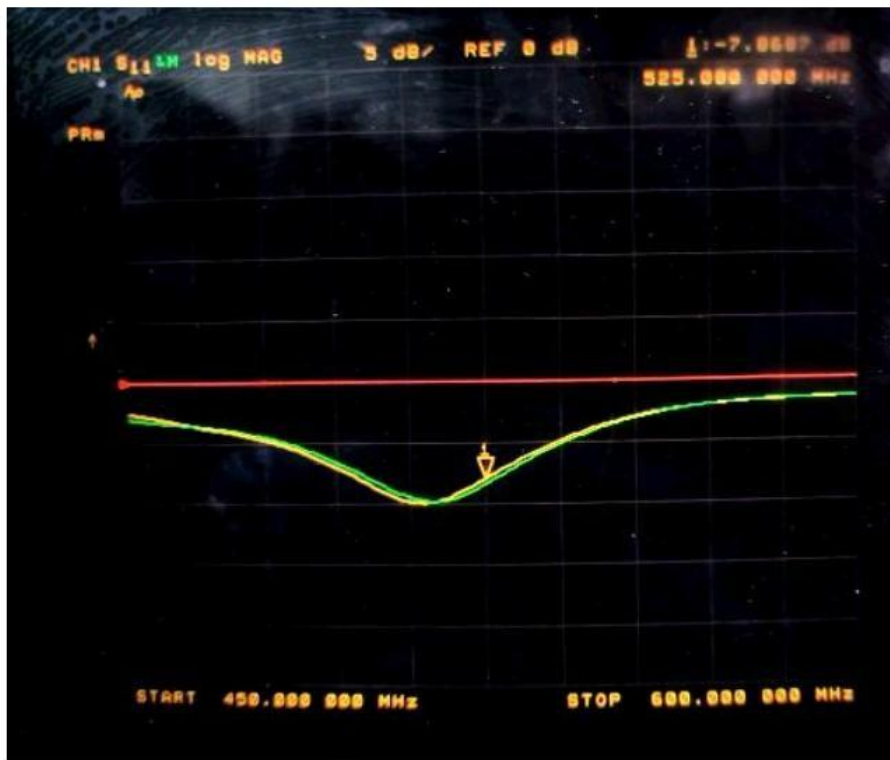
Mechanical Dimension	
Cable Length	070mm/BLACK
Description	UHF antenna
Material	FPC
Coaxial Cable	50Ω/0. D. 0. 81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

3: Circuit diagram matching & machine picture & antenna picture

(1) Matching circuit



4: Antenna VSWR & antenna efficiency (VSWR



6:3D pattern

